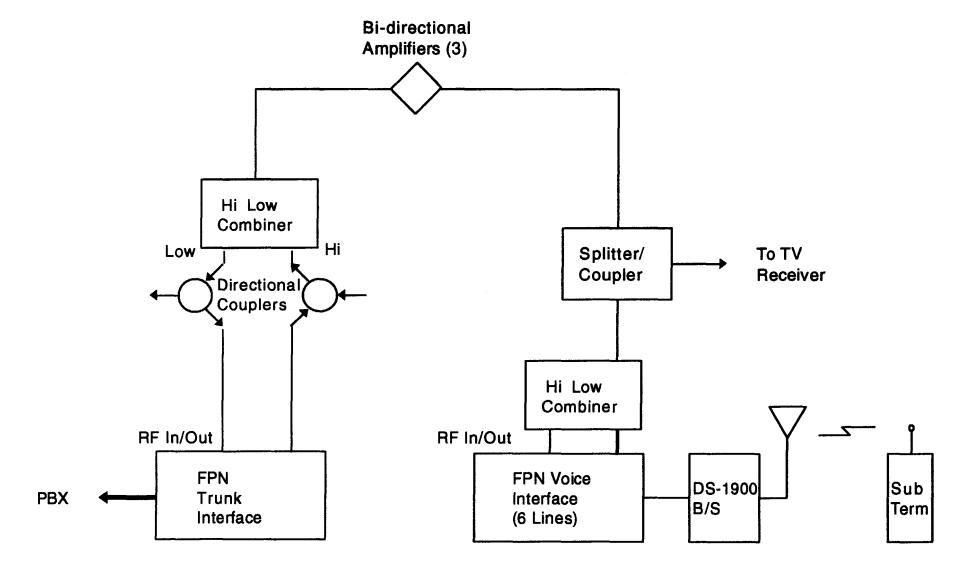
Figure 2
Digital Carrier Transport Test Configuration



provide additional information, in conjunction with the wireless office trial that is underway in Time Warner's Manhattan offices and that is described below. Because two wireless office systems will employ different access technologies, operate on different frequency bands, and be used by user groups with different demographic characteristics, the Quantum tests should provide valuable technical and operational information on wireless office systems which will complement and enhance that being developed in the Manhattan trial.

Time Warner hopes to expand this system, once proven, to permit field installations of the equipment and use by cable TV subscribers. This later phase of study will be used to obtain market research in actual field situations.

C. Wireless Office Experiments

While "wireless office" services have been expected to be important future personal communications applications, Time Warner lacks actual user experience from which to gauge the demand for this type of wireless service. As an initial step in evaluating this form of PCS, Time Warner outfitted several months ago one of its co-chief executive officers, Gerald Levin, with a digital wireless handset with which he could make and receive calls from various locations in a small portion of the company's headquarters building.

The success of this initial deployment has set the stage for a larger, more systematic effort to gather data concerning both the technical and productivity-enhancing aspects of a wireless office system. To conduct such a trial, Time Warner has constructed a small scale wireless communications system which serves the top four floors of its headquarters building at 75 Rockefeller Plaza, New York. Signal measurements of the each of the eight individual base stations which comprise the trial system have been made to establish their coverage.

Several senior executives, including Mr. Levin have been involved in the trial and have been issued wireless handsets for the use within the office. User value and reaction will be measured over the course of several months through a market trial that is being designed by, and conducted under the guidance of, Time Warner's marketing arm. The preliminary results of this market/user trial will be available before the end of 1992. Once this phase of testing in completed, contrasting information will be developed through a second stage of trials involving a different group of employees from the same location. Complete results and expanded testing should occur by first quarter 1993.

During the past quarter, the company has completed an exhaustive study of propagation characteristics in New York City.

Among other things, the delay spread data and analysis produced

in this effort is expected to yield information consequential in the design of wireless hardware.

The company this quarter also constructed a small scale wireless communications system in its headquarters building which it is using to conduct a user/market trial on this form of PCS. In addition, Time Warner exhibited the integration of cable TV and PCS in a multi-company demonstration held on Capitol Hill. Furthermore, testing of a hybrid remote antenna/digital transport carrier system is now underway in St. Petersburg, Florida, and final preparations are being made to install and operate a new digital transport carrier PCS system in Time Warner's Quantum cable system.

In sum, as this and other periodic reports demonstrate, Time Warner's program of experimentation continues to both introduce important technical concepts to the U.S. PCS and cable TV industries and provide early information important to the design of PCS systems.

IV. CONCLUSION

Time Warner has invested and will continue to invest substantial effort and resources in developing and testing PCS proposals that can be introduced rapidly and affordably to the American public. The Commission's overall public interest goal is that of providing for viable new wireless communications services with high functionality and sufficiently low cost to be

made generally available. That goal cannot be achieved without innovation. Time Warner has demonstrated that innovation and has significantly advanced the achievement of the Commission's public interest goals. Accordingly, Time Warner has demonstrated that it is entitled to a pioneer's preference in the PCS licensing process and respectfully requests that a pioneer's preference be granted to it in the PCS licensing process for the New York City area. 12

Respectfully submitted,

(202) 331-7478

TIME WARNER TELECOMMUNICATIONS

By:

Dennis R. Patrick
President and Chief Executive
Officer
Lisa A. Hook
Chief Operating Officer
1776 I Street, N.W.
Suite 850
Washington, D.C. 20006

In the event the Commission elects to award a pioneer's preference for New York City to a proponent other than Time Warner, Time Warner respectively requests a pioneer's preference for Houston, Texas, based on the reasons set forth in its preference request and the Supplement thereto.

CERTIFICATE OF SERVICE

I, Rachel T. Barksdale, hereby certify that a copy of the foregoing "Further Supplement to Request for Pioneer's Preference and Sixth Quarterly Report" has been sent by hand delivery (*) or by United States mail, first class and postage prepaid, to the following on this 30th day of September, 1992:

The Honorable Alfred C. Sikes*
Chairman, Federal Communications Commission
1919 M Street, N.W., Room 814
Washington, D.C. 20554

The Honorable James H. Quello*
Commissioner
Federal Communications Commission
1919 M Street, N.W., Room 802
Washington, D.C. 20554

The Honorable Sherrie P. Marshall* Commissioner Federal Communications Commission 1919 M Street, N.W., Room 826 Washington, D.C. 20554

The Honorable Andrew C. Barrett*
Commissioner
Federal Communications Commission
1919 M Street, N.W., Room 844
Washington, D.C. 20554

The Honorable Ervin S. Duggan*
Commissioner
Federal Communications Commission
1919 M Street, N.W., Room 832
Washington, D.C. 20554

Dr. Thomas P. Stanley, Chief*
Office of Engineering and Technology
Federal Communications Commission
2025 M Street, N.W., Room 7002
Washington, D.C. 20554

Dr. Robert M. Pepper, Chief*
Office of Plans and Policy
Federal Communications Commission
1919 M Street, N.W., Room 822
Washington, D.C. 20554

Mr. Ralph Haller*
Chief, Private Radio Bureau
Federal Communications Commission
2025 M Street, N.W., Room 5002
Washington, D.C. 20554

Cheryl A. Tritt, Esq., Chief*
Common Carrier Bureau
Federal Communications Commission
1919 M Street, N.W., Room 500
Washington, D.C. 20554

Mr. Gerald P. Vaughn, Deputy Chief* Common Carrier Bureau Federal Communications Commission 1919 M Street, N.W., Room 500 Washington, D.C. 20554

Dr. Bruce A. Franca*
Deputy Chief, Office of Engineering &
 Technology
Federal Communications Commission
2025 M Street, N.W., Room 7002
Washington, D.C. 20554

Kenneth Robinson, Esq.*
Legal Advisor to the Chairman
Federal Communications Commission
1919 M Street, N.W., Room 814
Washington, D.C. 20554

Ms. Charla Rath*
Legal Advisor to the Chairman
Federal Communications Commission
1919 M Street, N.W., Room 814
Washington, D.C. 20554

Terry L. Haines, Esq.*
Chief of Staff
Federal Communications Commission
1919 M Street, N.W., Room 814
Washington, D.C. 20554

Robert L. Pettit, Esq.*
General Counsel
Federal Communications Commission
1919 M Street, N.W., Room 614
Washington, D.C. 20554

David R. Siddall, Esq.*
Chief, Frequency Allocation Branch
Office of Engineering and Technology
Federal Communications Commission
2025 M Street, N.W., Room 7102
Washington, D.C. 20554

Mr. H. Franklin Wright Chief, Frequency Liaison Branch of Engineering and TEchnology Federal Communicatios Commission 2025 M Street, N.W., Room 7322 Washington, D.C. 20554

Mr. Thomas Mooring*
Office of Engineering and Technology
Federal Communications Commission
2025 M Street, N.W., Room 7330
Washington, D.C. 20554

Mr. Rodney Small*
Office of Engineering and Technology
Federal Communications Commission
2025 M Street, N.W., Room 7332
Washington, D.C. 20554

Stuart F. Feldstein, Esq. Fleischman and Walsh 1400 Sixteenth Street, N.W. Washington, D.C. 20036

Counsel for Adelphia Communications Corp.

Mr. Harold C. Davis Chief Technical Officer Advanced MobileComm Technologies, Inc. 82 Devonshire Street, R25D Boston, MA 02109

Mr. Jimmy K. Omura, Chairman Digital Spread Spectrum Technologies, Inc. 110 South Wolfe Road Sunnyvale, CA 94086

Jonathan D. Blake, Esq.
Covington & Burling
1201 Pennsylvania Avenue, N.W.
P.O. Box 7566
Washington, D.C. 20044
Counsel for American Personal Communications

George Y. Wheeler, Esq.
Koteen & Naftalin
1150 Connecticut Avenue, N.W.
Washington, D.C. 20036
Counsel for America Portable
Telecommunications, Inc.

Francine J. Berry, Esq.
David P. Condit, Esq.
Seth S. Gross, Esq.
American Telephone and Telegraph Company
295 North Maple Avenue
Room 3244J1
Basking Ridge, N.J. 07920
Counsel for American Telephone and Telegraph
Company

American TeleZone 13103 N. Moss Creek Drive Cypress, TX 77429

Lana Batts, Esq. American Trucking Associations 2200 Mill Road Alexandria, VA 22314

JoAnne G. Bloom, Esq.
Ameritech
30 South Wacker Drive
Suite 3900
Chicago, IL 60606
Counsel for Ameritech

Georgory M. Schmidt, Esq.
Covington & Burling
1201 Pennsylvania Ave., N.W.
Washington, D.C. 20044

Counsel for Association for Maximum Service
Televison, Inc.

Richard Rubin, Esq.
Fleishman & Walsh
1400 Sixteenth Street, N.W.
Suite 600
Washington, D.C. 20036
Counsel for Associated PCN Company

Mark S. Fowler, Esq.

James H. Barker, Esq.

Latham & Watkins

1001 Pennsylvania Avenue, N.W.

Suite 1300

Washington, D.C. 20004

Counsel for Bell Atlantic Personal
Communications, Inc.

Dennis F. Begley, Esq.
Reddy, Begley & Martin
2033 M Street, N.W.
Washington, D.C. 20036
Counsel for Broadband Communications
Corporation

James F. Ireland, Esq.
Cole, Raywid & Braverman
1919 Pennsylvania Avenue, N.W.
Second Floor
Washington, D.C. 20006-3458
Counsel for Cable USA, Inc.

Charles D. Ferris, Esq.
Howard J. Symms
Mintz, Levin, Cohn, Ferris, Glovsky & Popeo, P.C.
701 Pennsylvania Avenue, N.W.
Suite 900
Washington, D.C. 20004
Counsel for Cablevision Systems Corporation

Judith St. Ledger-Roty, Esq.
W. Theodore Pierson, Jr., Esq.
Nancy J. Thompson, Esq.
Reed Smith Shaw & McClay
1200 18th Street, N.W.
Washington, D.C. 20036
Counsel for Cellular Service, Inc.

Leonard J. Baxt, Esq.
Leonard J. Kennedy, Esq.
Laura H. Phillips, Esq.
Dow, Lohnes & Albertson
1255 23rd Street, N.W., Suite 500
Washington, D.C. 20037
Counsel for Comcast PCS Communications, Inc.

Mr. H. Mark Gibson COMSEARCH 11720 Sunrise Valley Dr. Reston, VA 22091 Mr. John D. Lockton Managing Partner Corporate Technology Partners 520 S. El Camino Real San Mateo, CA 94010

Werner Hartenberger, Esq.
Laura H. Phillips, Esq.
Dow, Lohnes & Albertson
1255 23rd Street, N.W., Suite 500
Washington, D.C. 20037
Counsel for Cox Enterprises, Inc.

David C. Jatlow, Esq.
Young & Jatlow
2300 N Street, N.W.
Suite 600
Washington, D.C. 20037
Counsel for Ericsson Business Communications,
Inc.

Robert S. Foosaner, Esq.
Lawrence R. Krevor, Esq.
Jones, Day, Reavis & Pogue
1450 G Street, N.W.
Washington, D.C. 20005
Counsel for Fleet Call, Inc.

Harold Mordkofsky, Esq.
Blooston Mordkofsky, Jackson & Dickens
2120 L Street, N.W.
Washington, D.C. 20037

Counsel for Freeman Engineering Associates,
Inc.

Gerald S. McGowan, Esq.
Lukas, McGowan, Nace & Gutierrez
1819 H Street, N.W.
7th Floor
Washington, D.C. 20006
Counsel for Globus Communications, Inc.

David A. Reams, Esq.
Attorney at Law
27019 Shawnee
Perrysburg, Ohio 43551
Counsel for Grand Broadcasting Corporation

Mr. David Hogan Hogan Transports, Inc. 1000 N. 14th Street St. Louis, MO 63106

James U. Troup, Esq.
Arter & Hadden
1801 K Street, N.W.
Suite 400K
Washington, D.C. 20006
Counsel for Iowa Network Services, Inc.

L. Marie Guillory, Esq. National Telephone Cooperative Association 2626 Pennsylvania Ave., N.W. Washington, D.C. 20037

Mr. Douglas G. Smith, President Omnipoint Communications, Inc. Ominpoint Corporation 7150 Campus Drive Colorado Springs, CO 80920

Mr. Richard Brass, President Oracle Data Publishing, Inc. 500 108th Avenue, N.E., Suite 1750 Bellvue, WA 98004-5500

Mr. Tom Alberg Executive Vice President McCaw Cellular Communications, Inc. 5400 Carillon Point Kirkland, WA 98033

Larry A. Blosser, Esq. MCI Telecommunications Corporation 1801 Pennsylvania, Avenue, N.W. Washington, D.C. 20006

Mr. Robert Leeck Montgomery Tank Lines 2540 So. Ashland Ave. Chicago, IL 60608

Stuart F. Feldstein, Esq. Fleischman and Walsh 1400 Sixteenth Street, N.W. Washington, D.C. 20036

Mr. Ken Thompson Northern Leasing, Inc. Route 3 Box 84 Marseilles, IL 61341

Counsel for Omnipoint Mobile Data Company

James L. Wurtz, Esq.
Pacific Bell
1275 Pennsylvania Avenue, N.W.
Washington, D.C. 20004
Counsel for Pacific Bell

Carl W. Northrop, Esq.
Bryan, Cave, McPheeters & McRoberts
700 13th Street, N.W.
Washington, D.C. 20005
Counsel for PacTel Corporation

Jeffrey Blumenfeld, Esq.
Glenn B. Manishin, Esq.
Blumenfeld & Cohen
1615 M Street, N.W.
Suite 700
Washington, D.C. 20036
Counsel for PageMart, Inc.

Caressa D. Bennet, Esq.
Blooston, Mordkofsky, Jackson & Dickens
2120 L Street, N.W.
Washington, D.C. 20037

Counsel for Panhandle Telephone Coorperative,
Inc.

Mr. Thomas E. Martinson Vice President PCN America, Inc. 153 East 53rd Street Suite 2500 New York, New York 10022

Mr. Richard G. Tomlinson PCN Communications, Inc. 2906 Main Street Glastonbury, CT 06033 Gardner F. Gillespie, Esq.
Hogan & Hartson
555 13th Street, N.W.
Washington, D.C. 20004
Counsel for PerTel, Inc.

A. Thomas Carroccio, Esq.
Santarelli, Smith & Carroccio
1155 Connecticut Avenue, N.W.
Washington, D.C. 20036-4306
Counsel for Pulson Communications Corporation

Margaret deB. Brown, Esq Pacific Telesis Group 130 Kearney Street, Room 3659 San Francisco, CA 94108

Kevin J. Kelly, Esq. Vice President, External Affairs Qualcomm Incorporated 2020 19th Street, N.W., Suite 501 Washington, D.C. 20036

Peter Tannenwald, Esq.
Arent, Fox, Kintner,
Plotkin & Kahn
1050 Connecticut Avenue, N.W.
Washington, D.C. 20036-5339
Counsel for Radio Telecom and Technology,
Inc.

Mr. Duane E. Smith Rockwell International Corp 4311 Jamboree Road Newport Beach, CA 92658

James F. Ireland, Esq.
Cole, Raywid & Braverman
1919 Pennsylvania Avenue, N.W.
Washington, D.C. 20006-3458
Counsel for SATCOM, Inc.

Dr. Donald L. Schilling, President SCS Mobilecom, Inc. Suite 200 85 Old Shore Road Port Washington, NY 11050

Mr. Sanford M. Edwards Silver Eagle Transport, Inc. 9523 Florida Mining Blvd. Jacksonville, FL 32257 Mr. Richard Sitton Sitton Motor Lines, Inc. P.O. Box 2587 Joplin, MO 64803

Mr. Sanjay B. Moghe, President SM Tek, Inc. 1021 Warwick Circle Hoffman Estates, IL 60194

Jerome K. Blask, Esq.
Coleen M. Egan, Esq.
Gurman, Kurtis, Blask & Freedman Chartered
1400 16th Street, N.W., Suite 500
Washington, D.C. 20036
Counsel for Spatial Communications, Inc.

Henry M. Rivera, Esq.
Larry S. Solomon, Esq.
Ginsburg, Feldman & Bress Chartered
1250 Connecticut Avenue, N.W.
Suite 800
Washington, D.C. 20036
Counsel for Suite 12 Group

James E. Meyers, Esq.
Baraff, Koerner, Olender & Hochberg, P.C.
5335 Wisconsin Avenue, N.W.
Suite 300
Washington, D.C. 20015-2003
Counsel for Tele-Communications, Inc.

Dr. Terrence P. McGarty, President Telmarc Telecommunications Co. 265 Franklin Street Boston, MA 02110

Raymond G. Bender, Jr., Esq.
Michael D. Basile, Esq.
Deborah R. Broughton, Esq.
1255 23rd Street, N.W.
Washington, D.C. 20037

Counsel for TRX Transportation Telephone
Company

George H. Shapiro, Esq.
Arent, Fox, Kintner, Plotkin & Kahn
1050 Connecticut Avenue, N.W.
Washington, D.C. 20036-5339
Counsel for Viacom International, Inc.

Lawrence J. Movshin, Esq.
Thelen, Marrin, Johnson & Bridges
805 15th Street, N.W.
Washington, D.C. 20005
Counsel for Advanced Cordless Technologies,
Inc.

James D. Ellis, Esq. Southwestern Bell Corporation One Bell Center, Room 3524 St. Louis, MO 63101

Randall B. Lowe, Esq.
Jones, Day, Reavis & Pogue
1450 G Street, N.W.
Washington, D.C. 20005
Counsel for LiTel Telecommunications Corp.

Joseph C. O'Neil, Esq. US West New Vector Group, Inc. 3350 161st Avenue, S.E. Bellevue, Washington 98008

Shelley L. Spencer, Esq. Swidler & Berlin 3000 K Street, N.W. Washington, D.C. 20007

Counsel for Personal Communications Network Services of New York, Inc.

Rachel T. Barksdale